

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P532989

Luminaire Tested: **GALN-SA8B-827-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532989
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8B-827-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19715 lumens
Efficiency: N/A
Efficacy: 60.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

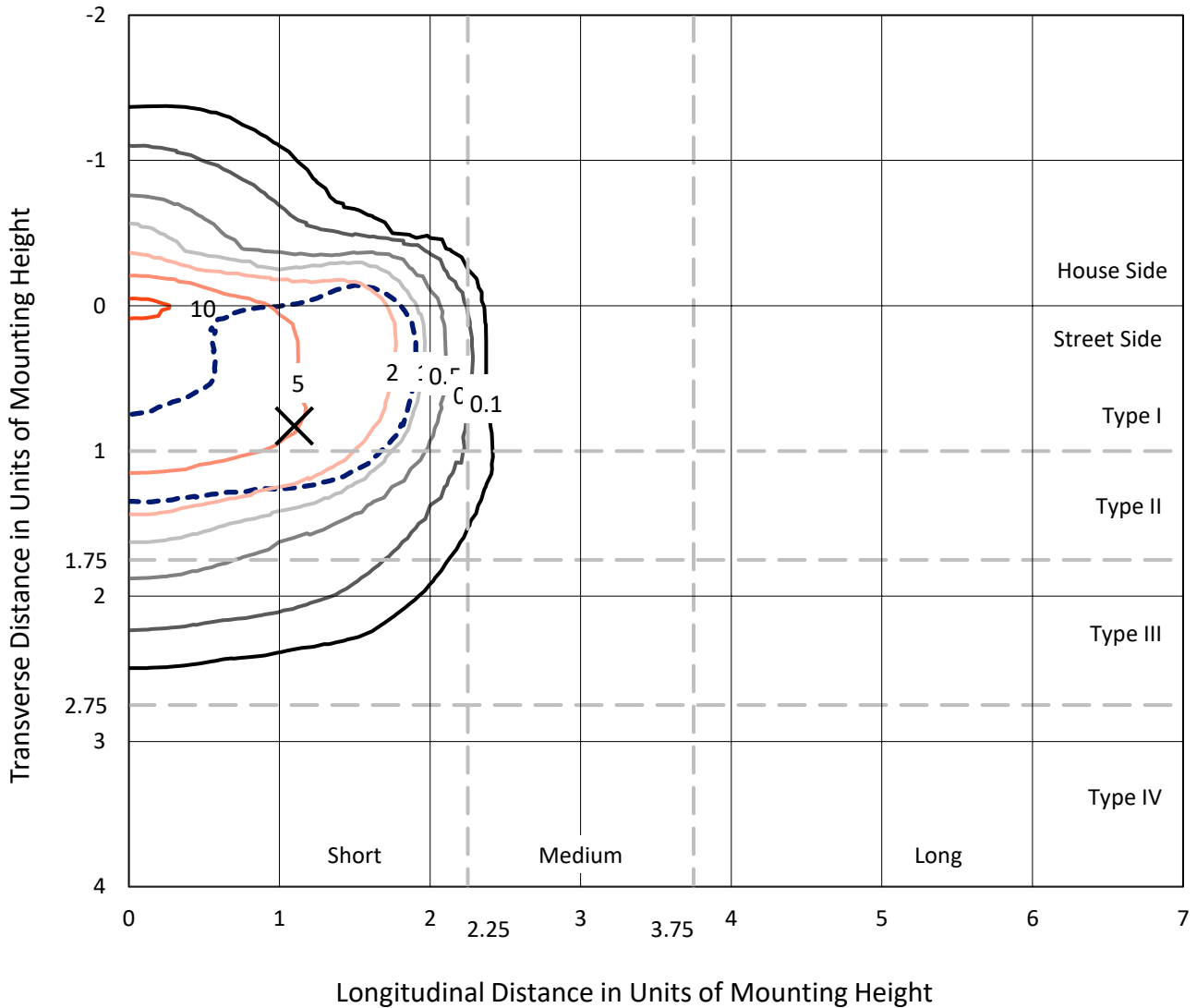
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

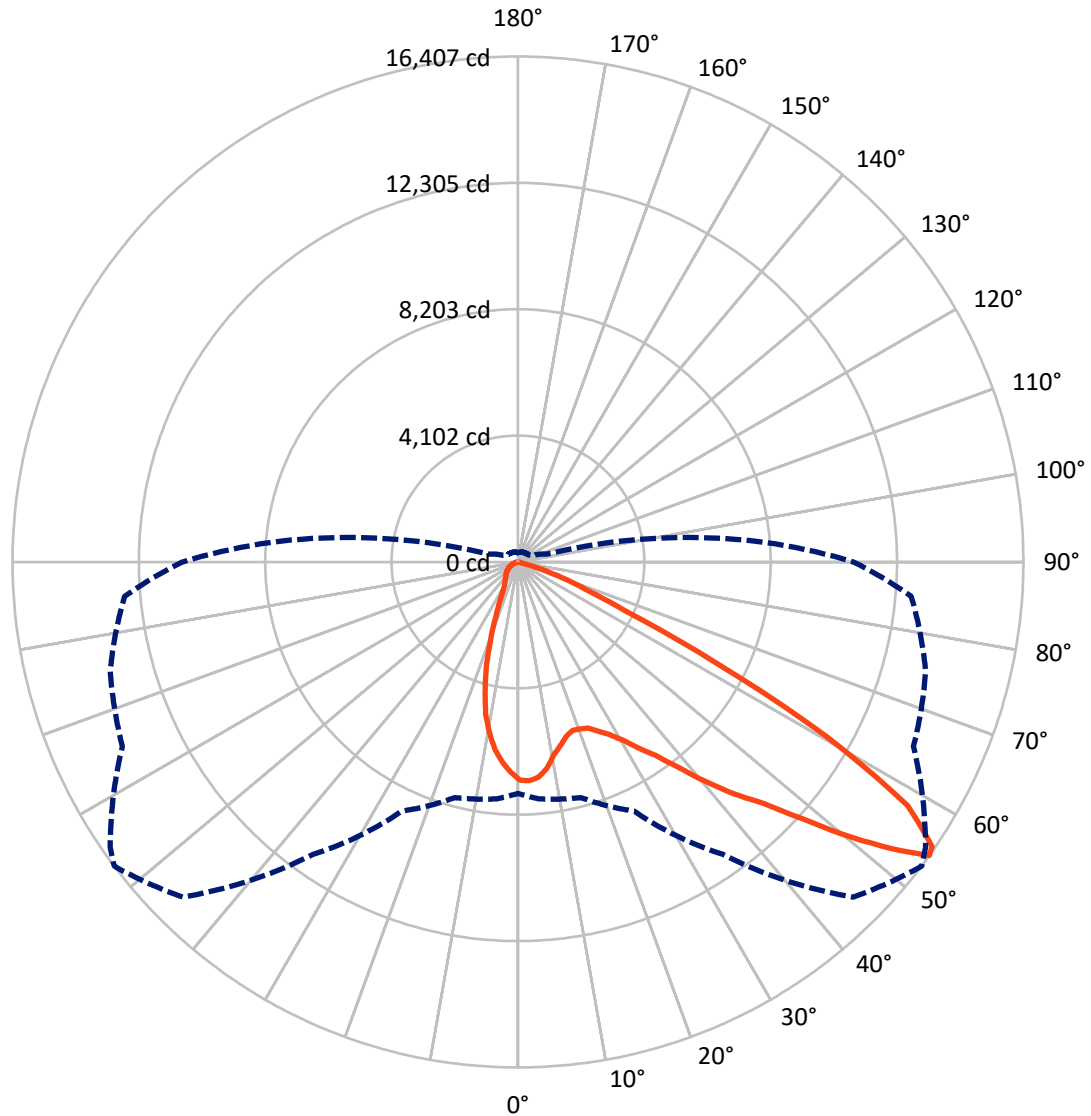
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3261.9	0.0	3261.9
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	16453.1	0.0	16453.1
	% Fixture	83.5	0.0	83.5
Total	Lumens	19715.0	0.0	19715.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	607.6	3.1
10°-20°	1392.9	7.1
20°-30°	1979.7	10.0
30°-40°	3055.2	15.5
40°-50°	4790.2	24.3
50°-60°	5564.5	28.2
60°-70°	2102.6	10.7
70°-80°	199.9	1.0
80°-90°	22.5	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	19715.0	100.0
0°-180°	19715.0	100.0

Coefficient of Utilization



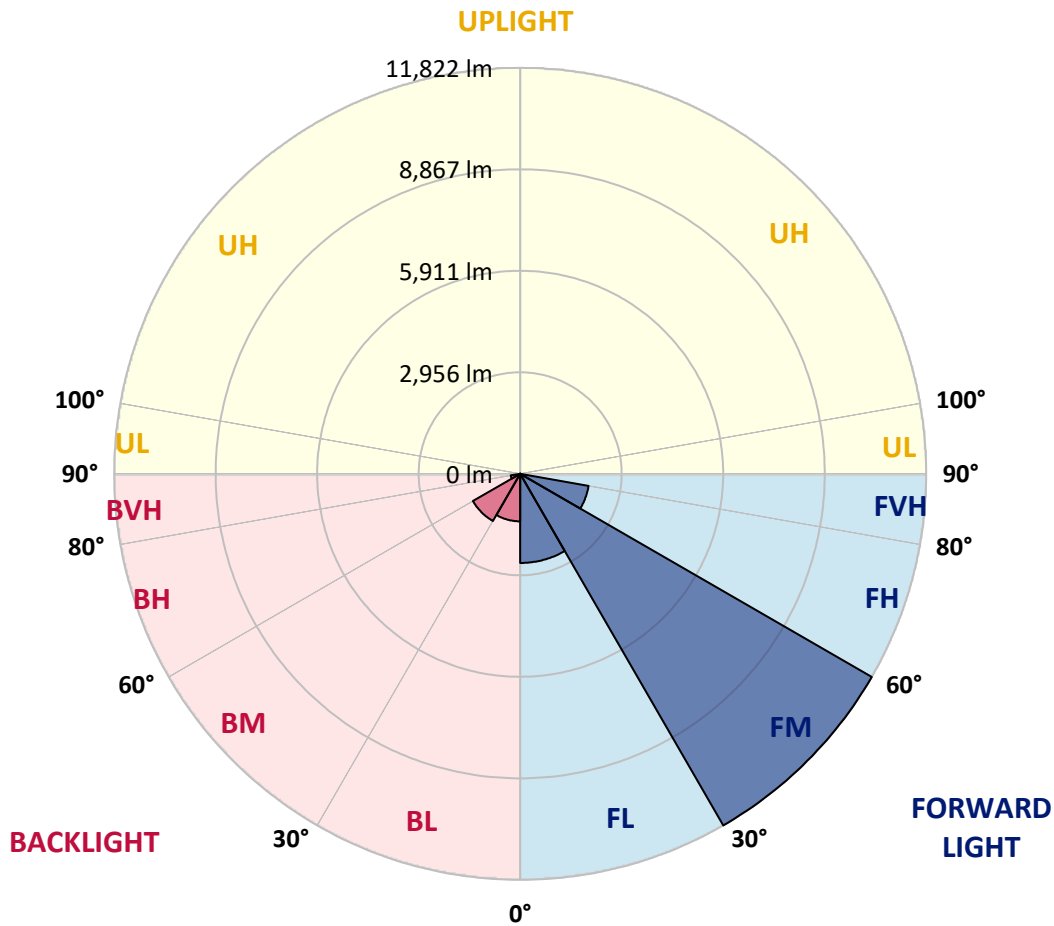
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2596.0	13.2			
FM (30°-60°)	11822.5	60.0			
FH (60°-80°)	2023.1	10.3			G2/5000
FVH (80°-90°)	11.6	0.1			G1/100
BL (0°-30°)	1384.2	7.0	B3/2500		
BM (30°-60°)	1587.3	8.1	B2/2500		
BH (60°-80°)	279.5	1.4	B1/500		G1/500
BVH (80°-90°)	10.9	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	7081.3	7081.3	7081.3	7081.3	7081.3	7081.3	7081.3	7081.3	7081.3	7081.3	7081.3
2.5°	7044.6	6982.1	7044.6	7051.9	7096.0	7136.4	7110.7	7169.4	7136.4	7099.7	7088.6
5°	6475.3	6559.7	6563.4	6695.6	6666.3	6908.7	7015.2	6985.8	7165.8	7154.8	7129.0
7.5°	5964.7	5931.7	5975.8	6130.0	6324.7	6603.8	6758.1	6754.4	7011.5	7195.2	7176.8
10°	5490.9	5487.3	5579.1	5700.3	5865.6	6159.4	6372.4	6478.9	6879.3	7158.4	7198.8
12.5°	5171.4	5156.7	5255.9	5355.0	5615.8	5843.5	6115.3	6166.8	6625.9	7029.9	7096.0
15°	4962.0	4995.1	5002.5	5193.4	5358.7	5659.9	5872.9	5979.4	6508.3	6927.0	7180.5
17.5°	4925.3	4969.4	4973.1	5131.0	5307.3	5560.7	5748.0	5891.3	6409.2	6978.5	7184.1
20°	4998.8	4973.1	4995.1	5094.3	5266.9	5509.3	5781.1	5828.8	6376.1	7004.2	7224.5
22.5°	5208.1	5200.8	5145.7	5226.5	5347.7	5601.1	5858.2	5931.7	6471.6	7136.4	7257.6
25°	5439.5	5479.9	5428.5	5417.5	5502.0	5751.7	6093.3	6188.8	6791.1	7375.1	7360.4
27.5°	5872.9	5832.5	5832.5	5781.1	5759.1	5880.3	6346.7	6504.7	7147.4	7683.6	7478.0
30°	6288.0	6332.0	6299.0	6317.3	6170.4	6159.4	6706.7	6901.3	7779.1	8153.8	7727.7
32.5°	6945.4	6886.6	6941.7	6894.0	6699.3	6501.0	7195.2	7397.2	8543.1	8693.7	8102.4
35°	7492.7	7466.9	7702.0	7694.7	7378.8	7184.1	7713.0	8014.2	9075.7	9340.1	8543.1
37.5°	8271.3	8223.6	8491.7	8620.2	8337.4	8047.3	8454.9	8803.9	9571.5	9858.0	8994.9
40°	9072.0	9193.2	9553.1	9766.2	9465.0	9079.3	9362.1	9468.7	9902.1	10195.9	9303.4
42.5°	10085.7	10262.0	10629.3	10812.9	10787.2	10368.5	10284.0	10280.4	10140.8	10100.4	9531.1
45°	11059.0	10992.9	11558.5	11958.9	12282.1	12160.9	11172.9	11062.7	10519.1	10243.6	9589.9
47.5°	11485.1	11463.0	11848.7	12561.2	13663.1	13813.7	12465.7	12039.7	11158.2	10846.0	9909.4
50°	10934.1	11048.0	11430.0	12219.6	13909.2	15058.8	14052.4	13479.4	11903.8	11580.6	10666.0
52.5°	9134.4	9211.6	9575.2	10577.9	13071.7	15793.3	15573.0	15242.4	13273.8	12737.5	11984.6
54°	7511.0	7716.7	7915.0	8921.4	11580.6	15385.7	16406.7	16153.3	14166.3	13699.8	12814.6
55°	6541.4	6662.6	6805.8	7808.5	10548.5	14695.2	16311.2	16333.3	14764.9	14001.0	13372.9
57.5°	4778.4	4862.9	4716.0	5160.4	7242.9	11933.2	14919.2	15514.2	15573.0	14452.7	13714.5
60°	3650.8	3687.6	3522.3	3592.1	4502.9	8190.5	11540.2	12256.4	14048.7	12631.0	11617.3
62.5°	2831.8	2839.1	2835.5	2956.7	3103.6	4818.8	7217.2	7852.6	9685.4	8969.2	7889.3
65°	2086.2	2053.1	2111.9	2479.2	2648.1	3030.1	3801.4	4264.2	5263.2	4444.2	3177.0
67.5°	1351.6	1362.6	1421.4	1843.8	2269.8	2324.9	2339.6	2302.9	2306.6	1270.8	797.0
70°	811.7	830.1	811.7	1043.1	1623.4	1667.5	1524.2	1487.5	1160.6	301.2	297.5
72.5°	481.1	455.4	407.7	448.1	675.8	808.0	727.2	723.6	455.4	176.3	176.3
75°	202.0	183.6	150.6	135.9	180.0	172.6	172.6	154.3	121.2	117.5	110.2
77.5°	40.4	40.4	29.4	33.1	44.1	51.4	62.4	62.4	73.5	73.5	69.8
80°	0.0	3.7	11.0	22.0	33.1	47.7	55.1	55.1	62.4	62.4	51.4
82.5°	0.0	3.7	11.0	22.0	29.4	44.1	55.1	55.1	62.4	66.1	55.1
85°	0.0	3.7	11.0	18.4	29.4	36.7	36.7	33.1	25.7	22.0	14.7
87.5°	0.0	0.0	3.7	7.3	3.7	7.3	7.3	7.3	7.3	7.3	7.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7081.3	7081.3	7081.3	7081.3	7081.3	7081.3	7081.3	7081.3	7081.3	7081.3	7081.3
2.5°	7114.4	7110.7	7022.5	6879.3	6846.2	6725.0	6710.3	6636.9	6677.3	6541.4	6526.7
5°	7055.6	7011.5	6905.0	6813.2	6545.1	6354.1	6203.5	6019.8	5913.3	5931.7	5861.9
7.5°	7140.1	7026.2	6838.9	6519.3	6192.5	5858.2	5678.3	5303.6	5167.7	4965.7	4936.3
10°	7051.9	6967.4	6677.3	6148.4	5696.6	5215.5	4793.1	4378.1	4062.2	3926.3	3896.9
12.5°	7044.6	6897.7	6412.8	5825.2	5171.4	4480.9	3867.5	3349.7	3037.5	2861.2	2820.8
15°	6930.7	6754.4	6115.3	5325.7	4422.1	3562.7	2894.2	2394.7	2156.0	2053.1	2082.5
17.5°	6941.7	6677.3	5817.8	4796.8	3683.9	2615.1	1976.0	1718.9	1656.5	1682.2	1682.2
20°	6930.7	6504.7	5457.9	4187.1	2820.8	1814.4	1450.8	1359.0	1399.4	1480.2	1461.8
22.5°	6871.9	6423.9	5127.3	3544.3	2075.2	1344.3	1164.3	1168.0	1230.4	1329.6	1351.6
25°	6916.0	6243.9	4708.6	2894.2	1513.2	1072.5	1010.0	1035.7	1101.9	1175.3	1190.0
27.5°	6883.0	6115.3	4271.5	2247.8	1105.5	921.9	918.2	947.6	977.0	1032.1	1032.1
30°	6919.7	5997.8	3841.8	1671.2	910.9	844.8	830.1	852.1	881.5	892.5	888.8
32.5°	7055.6	5909.6	3346.0	1248.8	804.4	771.3	771.3	771.3	767.6	782.3	786.0
35°	7353.1	5924.3	2908.9	966.0	734.6	708.9	697.8	683.2	675.8	683.2	686.8
37.5°	7676.3	5917.0	2457.2	822.7	683.2	661.1	635.4	613.4	609.7	617.0	606.0
40°	7819.5	5986.8	2038.4	738.2	635.4	609.7	569.3	550.9	554.6	561.9	554.6
42.5°	8014.2	6008.8	1766.7	672.1	591.3	550.9	525.2	503.2	499.5	510.5	506.9
45°	8010.5	5883.9	1480.2	635.4	550.9	506.9	473.8	455.4	455.4	462.8	466.5
47.5°	8245.6	5865.6	1270.8	602.4	521.5	477.5	437.1	422.4	418.7	418.7	411.4
50°	8792.9	6122.7	1109.2	565.6	484.8	444.4	411.4	393.0	378.3	371.0	367.3
52.5°	9861.7	6923.4	984.3	521.5	444.4	411.4	382.0	367.3	348.9	330.6	326.9
54°	10897.4	7749.8	977.0	484.8	411.4	389.3	363.6	356.3	334.2	308.5	301.2
55°	11363.9	8230.9	1002.7	455.4	389.3	374.6	352.6	345.2	323.2	293.8	290.2
57.5°	11749.5	8418.2	988.0	378.3	352.6	348.9	330.6	319.5	293.8	253.4	246.1
60°	9457.6	6365.1	708.9	334.2	323.2	315.9	301.2	293.8	260.8	216.7	213.0
62.5°	5975.8	3661.9	451.8	293.8	282.8	271.8	253.4	246.1	216.7	172.6	161.6
65°	2545.3	1516.9	304.8	260.8	242.4	224.0	209.4	198.3	172.6	128.6	124.9
67.5°	661.1	539.9	253.4	227.7	202.0	176.3	165.3	146.9	117.5	88.1	84.5
70°	297.5	271.8	213.0	191.0	161.6	135.9	121.2	102.8	77.1	58.8	55.1
72.5°	176.3	172.6	161.6	143.2	121.2	102.8	88.1	69.8	51.4	33.1	33.1
75°	110.2	106.5	110.2	99.2	84.5	77.1	66.1	47.7	29.4	14.7	14.7
77.5°	66.1	66.1	66.1	62.4	58.8	58.8	47.7	29.4	14.7	3.7	3.7
80°	51.4	51.4	55.1	51.4	51.4	51.4	40.4	22.0	7.3	0.0	0.0
82.5°	51.4	55.1	62.4	58.8	51.4	44.1	36.7	22.0	7.3	0.0	0.0
85°	14.7	11.0	18.4	25.7	36.7	33.1	25.7	18.4	7.3	0.0	0.0
87.5°	7.3	7.3	7.3	7.3	3.7	3.7	3.7	3.7	3.7	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)